

# Converting Colors

XYZ(49.6431, 65.9295, 76.4560)

Have a look what the booklet for  
XYZ(49.6431, 65.9295, 76.4560)  
contains.

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# Color

**XYZ(49.8538, 66.2448,  
76.4886)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 80E6DA                       |
| RGB         | 128, 230, 218                |
| RGB Percent | 50%, 90%, 85%                |
| CMY         | 0.4980, 0.0980, 0.1451       |
| CMYK        | 0.44, 0.00, 0.05, 0.10       |
| HSL         | 173°, 67%, 70%               |
| HSV         | 173°, 44%, 90%               |
| XYZ         | 49.8538, 66.2448, 76.4886    |
| YIQ         | 198.1340, -56.9400, -25.3560 |

# Conversions

## Conversions Part 2

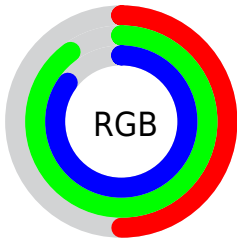
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| <b>RYB</b>                          | 128, 182, 230                 |
| Decimal                             | 8447706                       |
| CIELab                              | 85.12, -32.63, -3.44          |
| CIELCh                              | 85, 32.815, 186.024           |
| Yxy                                 | 66.2448, 0.2589,<br>0.3440    |
| Android<br>(android.graphics.Color) | 4286637786<br>(0xFF80E6DA)    |
| YUV                                 | 198.1340, 9.7939,<br>-61.5075 |
| Hunter-Lab                          | 81.3909, -33.0987,<br>1.2548  |

# Details

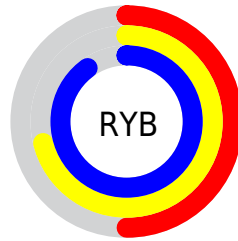
The XYZ color **49.8538, 66.2448, 76.4886** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **45.0882, 34.1567, 29.0299**, and the grayscale version is **53.7267, 56.5247, 61.5554**.

A 20% lighter version of the original color is **74.0597, 89.1791, 107.9177**, and **24.2012, 34.1817, 39.9725** is the 20% darker color. If you saturate the color by 10%, you get **46.4278, 64.5208, 74.4958**, and if you desaturate by 10%, it is **54.0735, 68.3805, 78.5517**.

# Distribution



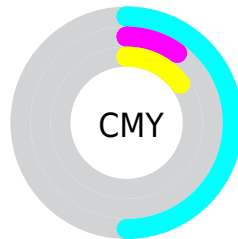
- Red (50%)
- Green (90%)
- Blue (85%)



- Red (50%)
- Yellow (71%)
- Blue (90%)



- Cyan (44%)
- Magenta (0%)
- Yellow (5%)
- Black (10%)



- Cyan (50%)
- Magenta (10%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.8538, 66.2448, 76.4886 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 49.8538, 66.2448, 76.4886 by changing the saturation by 10% instead.



■ 49.8538, 66.2448,  
76.4886

■ 49.8538, 66.2448,  
76.4886

376.5554,  
447.2519, 502.4099

■ 35.5146, 48.4712,  
56.3242

■ 89.1513, 113.8376,  
130.1837

■ 24.2279, 34.2002,  
40.0572

■ 114.8404,  
144.4256, 164.5516

■ 15.6284, 23.0474,  
27.2690

■ 145.0434,  
180.0538, 204.4909

■ 9.3508, 14.6285,  
17.5411

180.1257,  
221.1066, 250.4204

■ 5.0296, 8.5591,  
10.4550

220.4527,  
267.9684, 302.7585

■ 2.2996, 4.4547,  
5.5922

266.3897,

■ 0.7945, 1.9310,

321.0236, 361.9237

2.5340

318.3022,  
380.6566, 428.3347

■ 0.0000, 0.5669,  
0.8581

■ 0.0000, 0.0000,  
0.0000

■ 49.8538, 66.2448,  
76.4886

■ 49.8538, 66.2448,  
76.4886

■ 46.4278, 64.5208,  
74.4958

■ 54.0735, 68.3805,  
78.5517

■ 43.7360, 63.1731,  
72.5659


■ 59.1298, 70.9452,  
80.6828


■ 41.7199, 62.1730,  
70.6976


■ 65.0693, 73.9645,  
82.8857


■ 40.3096, 61.4846,  
68.8874


■ 71.9336, 77.4599,  
85.1625


 39.4194, 61.0636,  
67.1311


 79.7615, 81.4514,  
87.5151

 39.0702, 60.9048,  
66.1586

 84.4238, 83.8102,  
89.7505

 84.8162, 83.9672,  
91.8171

 85.2147, 84.1266,  
93.9151

 85.6191, 84.2883,  
96.0447

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



50.8432, 66.2448, 56.8132



49.8538, 66.2448, 76.4886



52.1484, 66.2448, 98.8315

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



49.8538, 66.2448, 76.4886



71.7031, 66.2448, 110.3369



68.9209, 66.2448, 40.9489

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



49.8538, 66.2448, 76.4886



45.0882, 34.1567, 29.0299

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



75.1796, 66.2448, 50.7300



49.8538, 66.2448, 76.4886



76.8719, 66.2448, 89.9769

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



49.8538, 66.2448, 76.4886



64.4680, 66.2448, 120.6859



78.1913, 66.2448, 67.9389



61.4830, 66.2448, 38.7349



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.8538, 66.2448, 76.4886



55.3462, 66.2448, 111.4493



78.1913, 66.2448, 67.9389



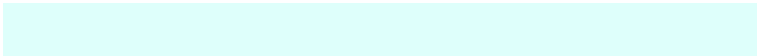
71.2500, 66.2448, 43.3524

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



49.8557, 66.2474, 76.4901



83.2665, 93.9972, 105.1035



43.2820, 63.8703, 30.4705



17.4376, 19.9234, 22.3619



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.8557, 66.2474, 76.4901



59.0792, 81.7401, 94.4000



42.1687, 48.2680, 81.9600



14.7306, 16.3057, 18.1120



22.1483, 34.4914, 37.6109



1.6575, 2.5571, 2.8887



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



45.0882, 34.1567, 29.0299



52.3649, 36.4275, 27.4720



50.0591, 45.4385, 26.5556



14.4456, 14.3954, 15.2811



18.6104, 9.5784, 1.5776

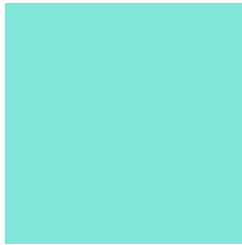


1.3981, 0.7170, 0.2370



# Previews

## White Background



This preview shows how the XYZ color 49.8538, 66.2448, 76.4886 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

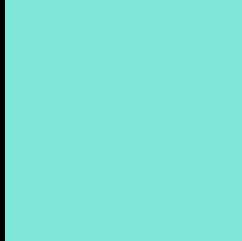
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.8538, 66.2448, 76.4886 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

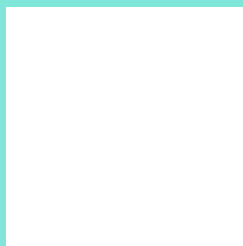
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.8538, 66.2448, 76.4886**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.8538, 66.2448, 76.4886.



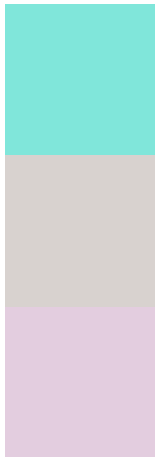
This preview shows how white text looks on a background with the XYZ color 49.8538, 66.2448,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

49.8538, 66.2448, 76.4886

### Protanopia

62.6280, 65.1971, 68.3149

### Deuteranopia

66.8292, 65.3212, 78.8980



## Tritanopia

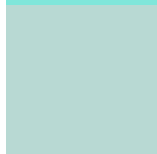
53.6788, 66.1586, 95.5287

# Trichromacy



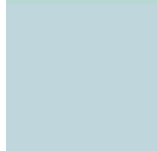
## Original Color

49.8538, 66.2448, 76.4886



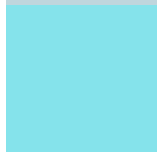
## Protanomaly

56.3379, 64.5192, 71.1121



## Deuteranomaly

58.5836, 64.3900, 77.7474



## Tritanomaly

52.1373, 65.9229, 88.5737

# Monochromacy



## Original Color

49.8538, 66.2448, 76.4886



## Achromatopsia

53.6758, 56.4712, 61.4971



## Achromatomaly

51.2996, 59.3852, 66.5163

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.8538, 66.2448, 76.4886 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(128, 230, 218)` looks like.

```
.text, #text, p{  
    color:rgb(128, 230, 218)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(128, 230, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 230, 218) }
```

## Border

The CSS property to change the border of an element to XYZ 49.8538, 66.2448, 76.4886 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

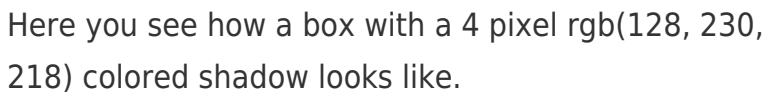
```
.border, #border, table{ border:4px solid rgb(128, 230, 218) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(128, 230, 218) }
```

If you want to add a box shadow in that color use:



Here you see how a box with a 4 pixel `rgb(128, 230, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(128, 230, 218); -webkit-box-shadow:4px 4px 4px 4px rgb(128, 230, 218); box-shadow:4px 4px 4px 4px rgb(128, 230, 218) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.8538, 66.2448, 76.4886 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 230, 218) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(128,  
230, 218) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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